



William Park

 williampark.site

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technical strengths

Languages

Python, JavaScript, C++, HTML, CSS

Technologies

React, Node.js, Express.js,
MongoDB, Git, React Native,
Postman, TensorFlow

Interests

Web development, AI,
Mobile development,
Firmware

awards

President's Scholarship of Distinction

University of Waterloo

Awarded to students with an admission average of 95% or higher.

Nortel Networks

Undergraduate Scholarship

University of Waterloo

Awarded to outstanding students entering year one of electrical and computer engineering.

education

University of Waterloo

2019 to Present

BASc Computer Engineering

work experience

Software Developer in Test | 360 Education Labs Inc

January 2020 to April 2020

- Executed **automation tests** using **Selenium WebDriver** and **debugged test cases**, improving the efficiency of the testing workflow by **10%**.
- Performed analysis, reporting and resolution on **Pivotal Tracker tickets** regarding ongoing web, desktop and mobile application systems.
- Recommended **design and functionality aspects** for application features during daily SCRUM meetings to meet **client needs and specifications**.

personal projects

Flicker

<https://github.com/williamhpark/movie-tinder.git>

- Championed the development of the web application's front end, **establishing an interactive UI using React** and styling components with **CSS**.
- Architected an **internal API with Node.js to validate user authentication** and provide a channel for the front end to access data stored in **MongoDB**.
- Reviewed pull requests on a shared **Github** repository to **restructure inefficiencies** and **improve programming style**.

Personal Portfolio Website

<https://github.com/williamhpark/personal-website-public.git>

- Developed a **full-stack** personal portfolio website using the **MERN stack** to display projects/hobbies and host a blog.
- Integrated the **GridFS specification** into the **Node.js back end** to store large digital assets in **MongoDB** and serve them to the front end.

Automated Ping-Pong Ball Launcher

https://github.com/williamhpark/ping_pong_launcher.git

- Constructed a launching mechanism using **brushed DC motors** connected to an **L293D motor driver** to manage their speed and spinning direction.
- Wrote and uploaded code to an **Arduino microcontroller**, using **C++** and the **Arduino IDE**, to control the feeding system and **automate** ball distribution.

extracurriculars

SHAD Fellow | SHAD Program

June 2018 to July 2018

- Earned the SHAD Fellow designation after being **nominated** to attend the award-winning **STEM and entrepreneurship program**.
- Created a **design and business model** for an emergency evacuation kit to help increase resilience against wildfires, placing **third** in competition.